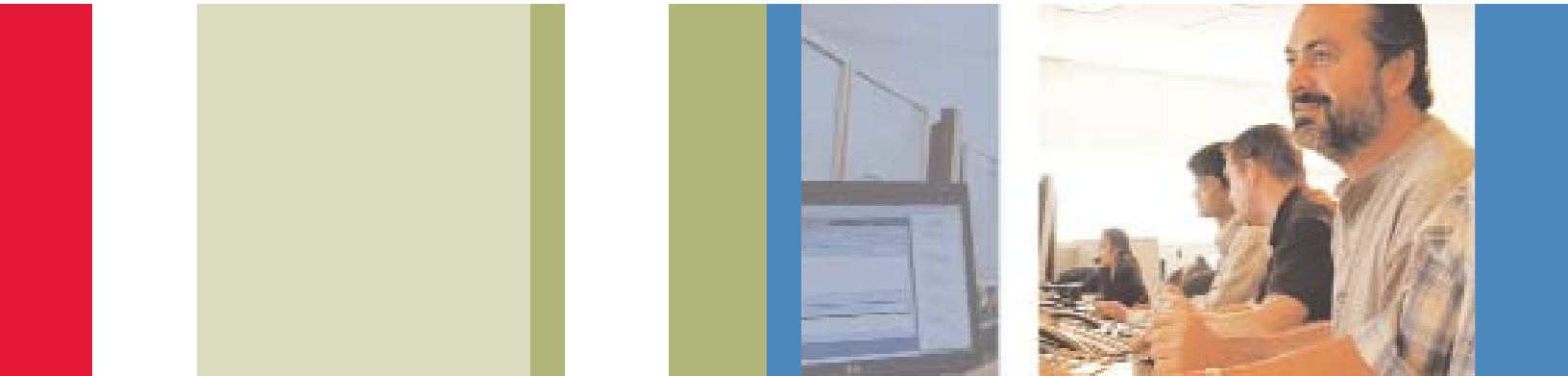


UACN CDR Browser

Long Term CDR Storage and Browser for Converged Networks



Robust Solution Supports Unified Assurance Applications with Long-term Storage and Easy Access

With Tektronix' CDR browser, operators can store and access correlated CDRs for a variety of purposes.

- Store data records for on-demand searching by customer to resolve trouble tickets.
- Meet government regulations with long-term data records for proof of performance.
- Complement traditional SUDS storage capabilities.

Available as an option for Unified Assurance for Converged Networks (UACN) applications, Tektronix' CDR Browser offers seamless integration with dashboard views for drill-down access to stored transactions. Alternatively, a stand-alone deployment option delivers dashboard access via an on-board web-server application.

Data Record Log

Filter

Level: Start Time: End Time:

Log Columns:

Limit: By:

Protocol Filters
User Information Filters
Node Information Filters
KPI Filters

Call Detail	Start Time	End Time	Calling Number	Called Number
	2009-03-25 12:54:32:546,000,000 CDT	2009-03-25 12:55:00:546,000,000 CDT	991001Buri191510	991001A90019051
	2009-03-25 12:54:32:546,000,000 CDT	2009-03-25 12:55:00:546,000,000 CDT	991001Buri191511	991001A90019051
	2009-03-25 12:54:33:546,000,000 CDT	2009-03-25 12:55:01:546,000,000 CDT	991001Buri191520	991001A90019052

Access relevant records quickly by combining drop-down filter selections with more advanced Key Performance Indicator (KPI) query capabilities.

Browser Highlights

A simple, web-based query interface delivers drill-through access to reporting and troubleshooting functions.

- Summarized query results populate tables with user-definable presentation columns.
- Call Multi-Protocol Detail reporting delivers a correlated view of all data records (multi-leg) for chosen call.
- Multi-Protocol Call Trace integration facilitates launch of Web-based Call Trace directly from Data Record Details.
- An open database schema supports an SQL Interface API for programmatic query of calls based on specific KPIs and values.

Voice Protocol Support

- **SS7:** ISUP, ISDN
- **VoIP:** SIP, H.248, MGCP, H.323, RTP, RTCP, DNS/ENUM
- **Mobile:** GSM MAP, CAMEL



CDR Browser Storage Examples

For each call, CDR Browser stores the following:

Per Call (Correlated End-to-end)

- Calling and Called numbers (or To/From URIs)
- Call Start Time
- Call End Time
- IP addresses/PointCodes
- Release cause for the call
- KPIs

Per Call Leg (Every Hop)

- Calling and Called numbers (or To/From URIs, VIA field)
- Protocol
- Procedure
- Message Time Stamps (Start, Seizure, Ringing, Answer, Release)
- Source and Destination IP address or Point Code
- Release cause

Search capabilities support the investigation of stored records by Subscriber, IP Address, Node, Protocol and Call Quality.

Call Quality (based on KPI values)

- Answers
- Completion
- Failure
- Drop
- NER
- MOU*
- MOS*
- Packet Loss*
- Packet Delay*
- Packet Jitter*
- Latency*

In addition to standard Call Quality searches, more advanced, programmable KPI queries are made possible with an SQL-based interface.

About Tektronix:

Tektronix Communications provides network operators and equipment manufacturers around the world an unparalleled suite of network diagnostics and management solutions for fixed, mobile, IP and converged multi-service networks.

This comprehensive set of solutions support a range of architectures and applications such as LTE, fixed mobile convergence, IMS, broadband wireless access, WiMAX, VoIP and triple play, including IPTV.

For Further Information:

Tektronix maintains a comprehensive, constantly expanding collection of application notes, technical briefs and other resources to help engineers working on the cutting edge of technology.

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